

Time allowed: 3 Hours

Max. Marks: 60

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting atleast one question from each Unit.

x-x-x

1. Explain following in brief :-

- (a) What is passive immunity?
- (b) Antibody and antigen interaction.
- (c) Antigen Presenting Cell.
- (d) Mast cell.
- (e) Use of immunoblotting.
- (f) Monoclonal antibodies
- (g) Hypersensitivity
- (h) T cell

(8x1½)

UNIT - I

2. What is immune response? Describe the various types of immune responses.

(12)

3. (a) Write a short note on Immunoglobulin.

(b) Antibody diversity.

(2x6)

UNIT - II

4. What are cytokines? Write the roles of cytokinin in immune regulation.

(12)

5. (a) Write a short note on ELISA.

(b) What is natural killer cell, also mentioned their roles in immunology.

(2x6)

UNIT - III

6. Discuss in details about the protein targeting. Explain only in mitochondria.

(12)

7. (a) Write a short not on mechanism of GPCR.

(b) Explain the vesicular budding.

(6,6)

x-x-x